PATENT APPLICATION

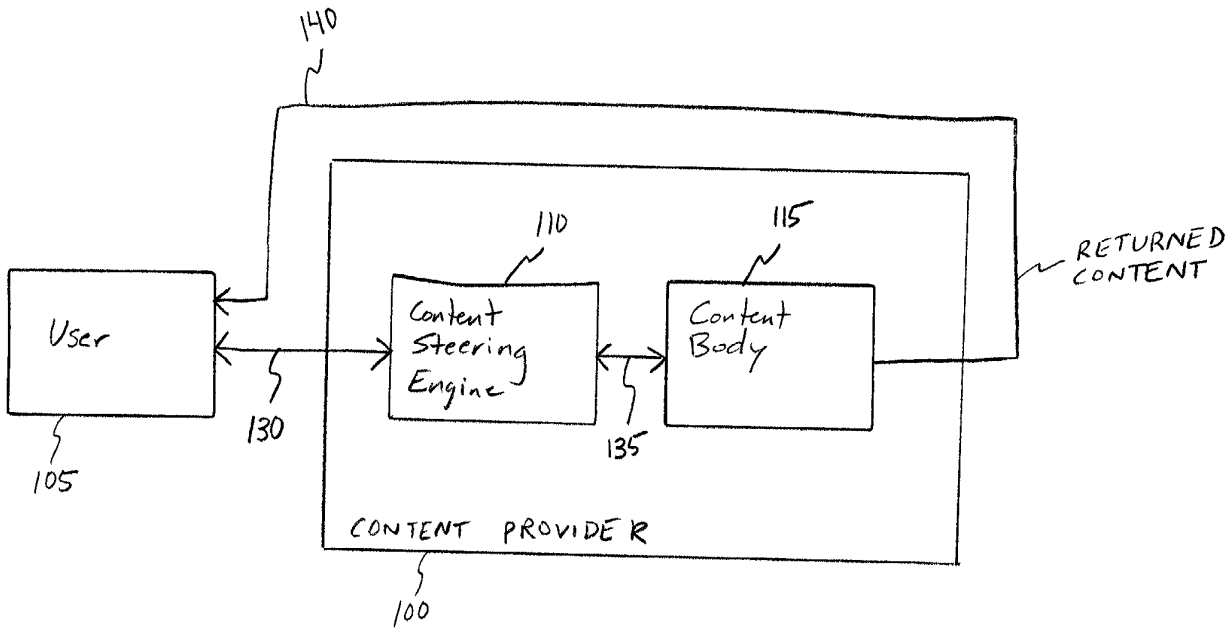


FIG. 1

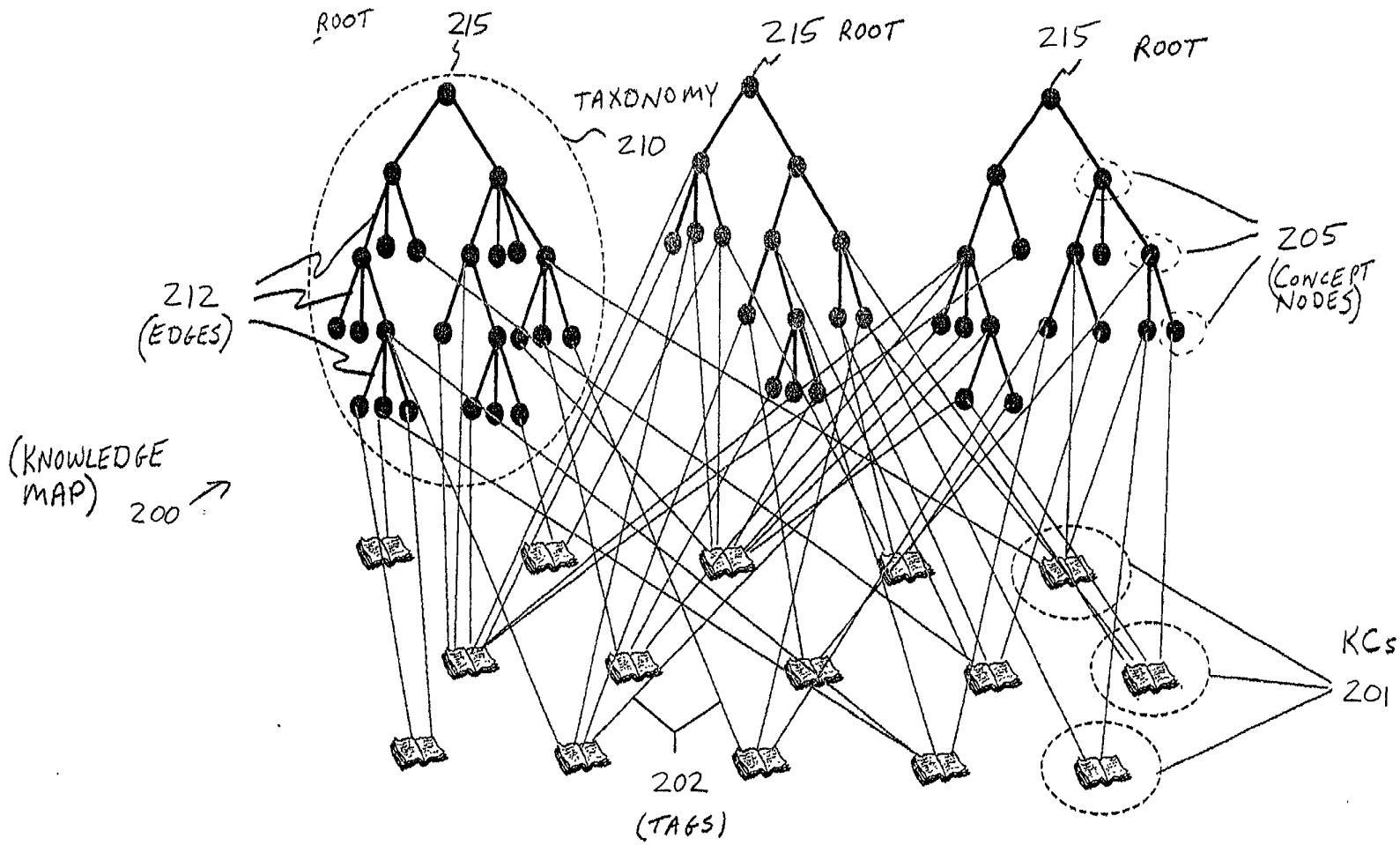

ROOT
215
215 ROOT
215
ROOT
TAXONOMY
210
205
(CONCEPT NODES)
212
(EDGES)
(KNOWLEDGE MAP)
200
KCs
201
202
(TAGS)

FIG. 2

FOREST Method

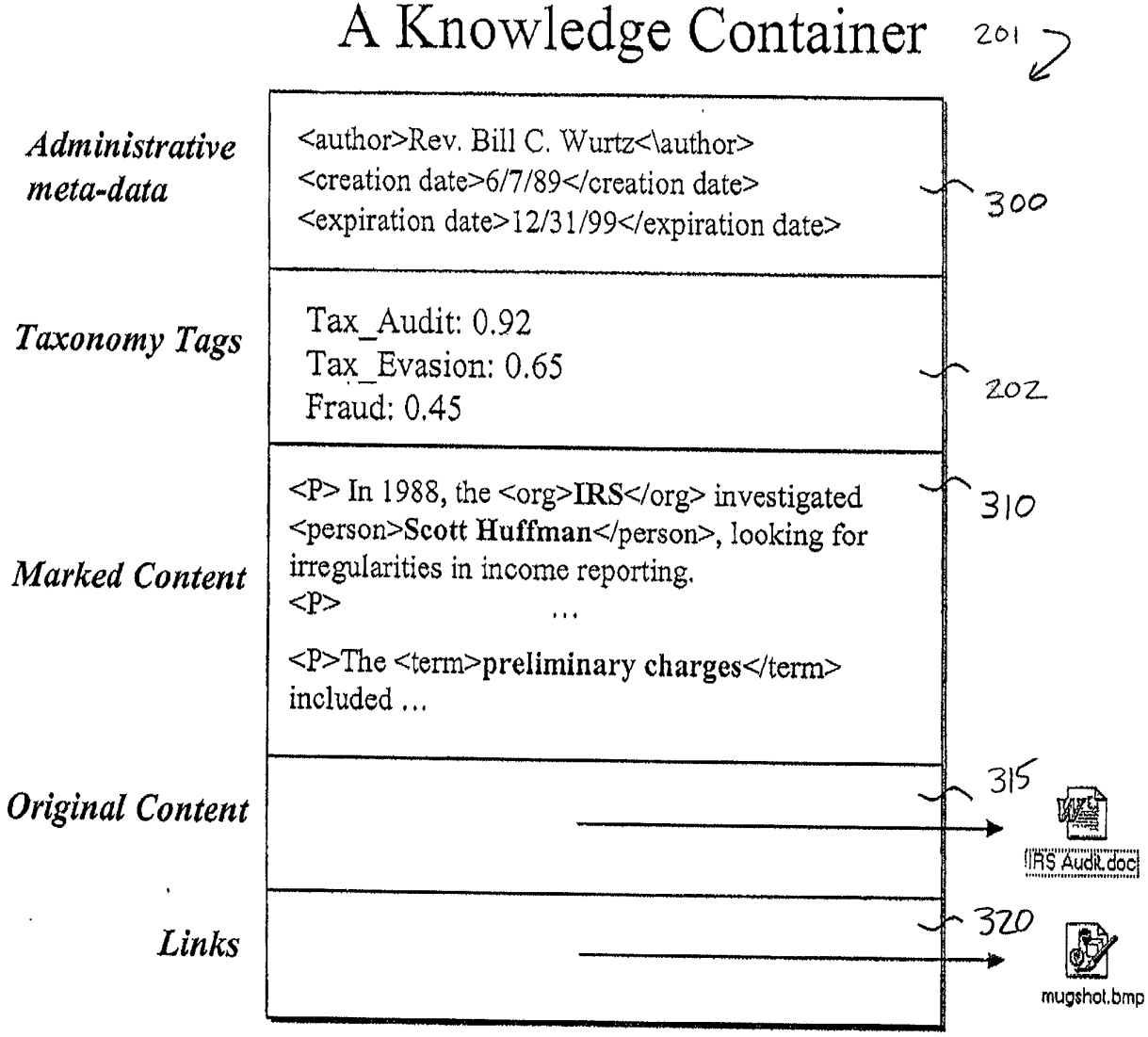


Fig. 3

FOREST-1521.0001

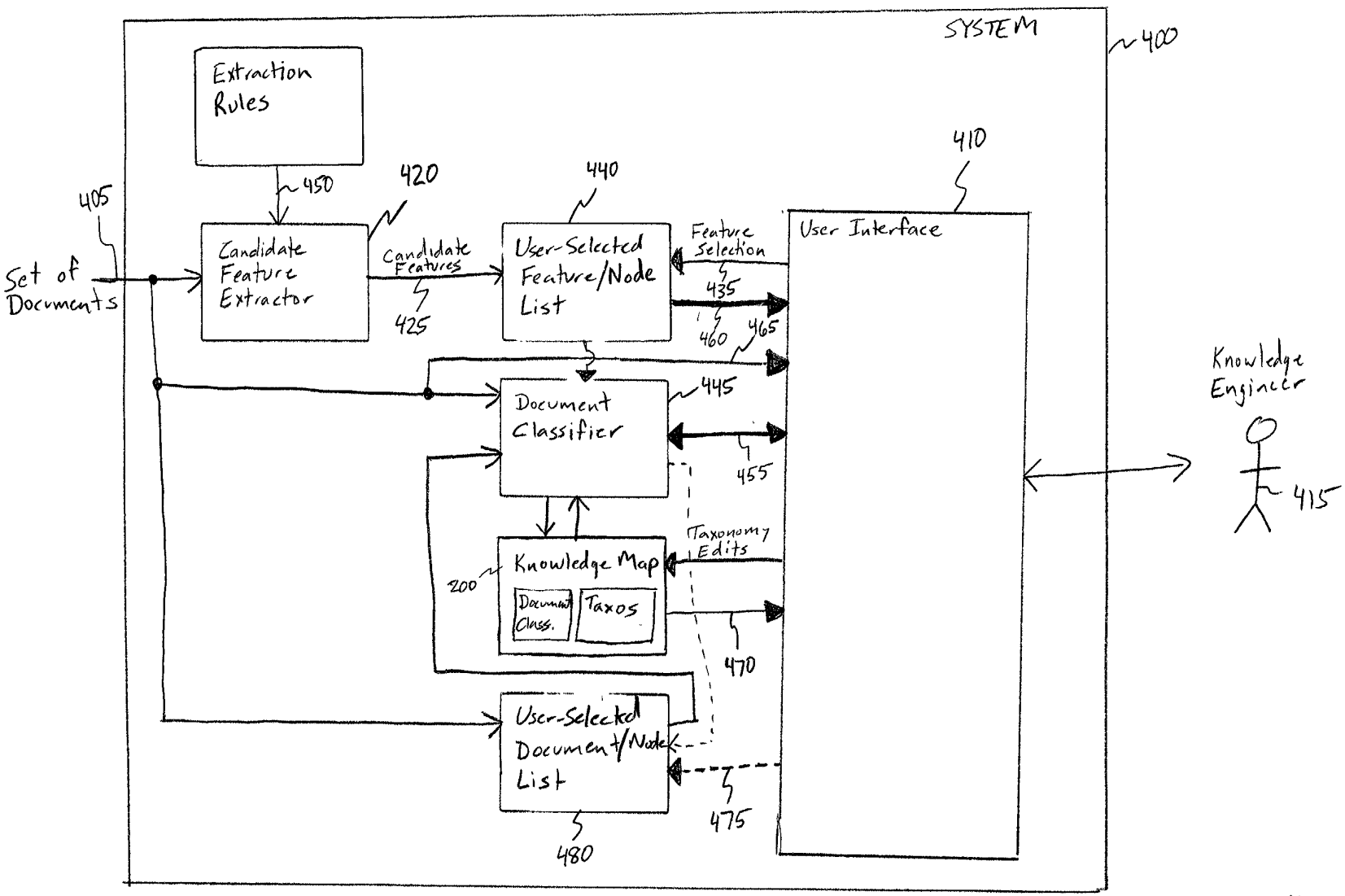


FIG. 4

Document - 12/24/08

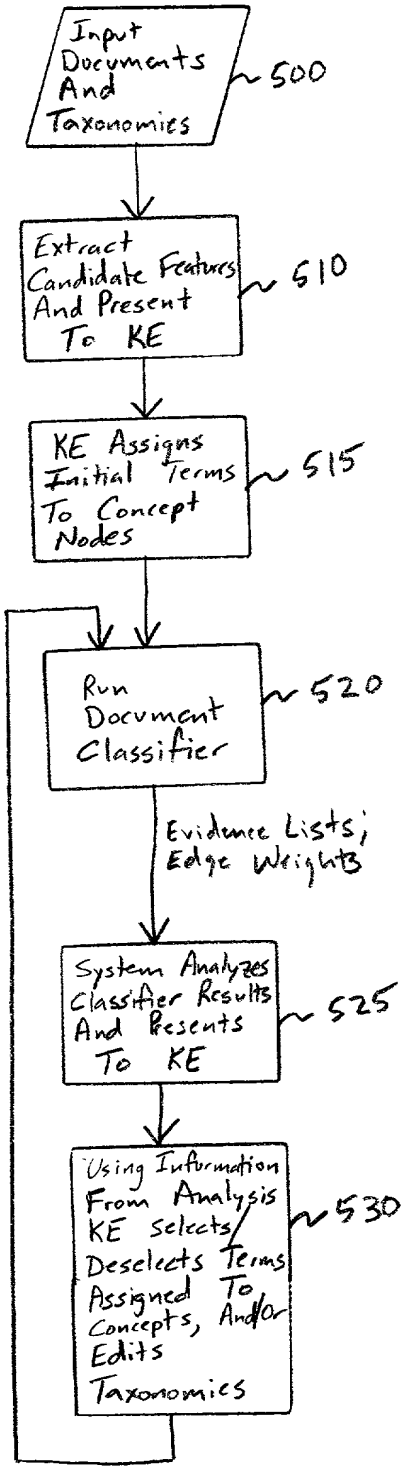


FIG. 5

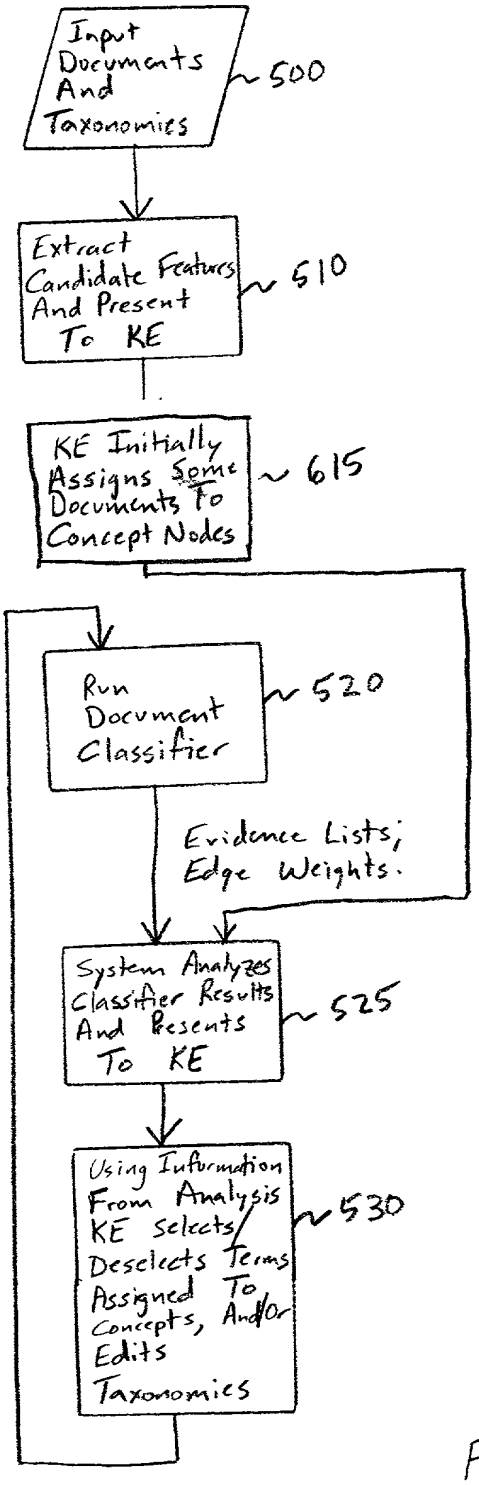

Input Documents And Taxonomies
500
Extract Candidate Features And Present To KE
510
KE Initially Assigns Some Documents To Concept Nodes
615
Run Document Classifier
520
Evidence Lists; Edge Weights.
System Analyzes Classifier Results And Presents To KE
525
Using Information From Analysis KE selects/ Deselects Terms Assigned To Concepts, And/Or Edits Taxonomies
530

FIG. 6

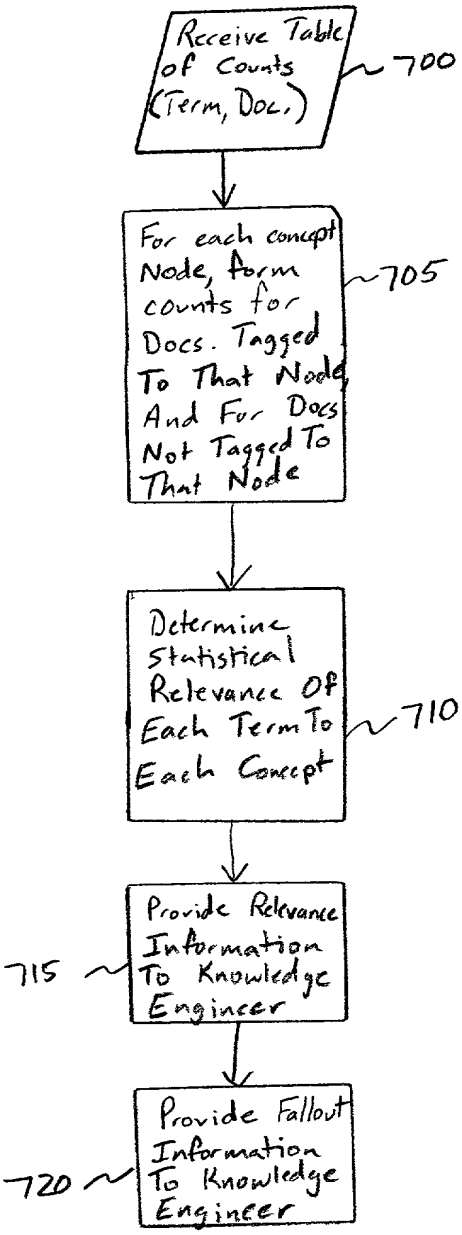

Receive Table of Counts (Term, Doc.)
700
For each concept Node, form counts for Docs. Tagged To That Node And For Docs Not Tagged To That Node
705
Determine Statistical Relevance Of Each Term To Each Concept
710
Provide Relevance Information To Knowledge Engineer
715
Provide Fallout Information To Knowledge Engineer
720

FIG. 7

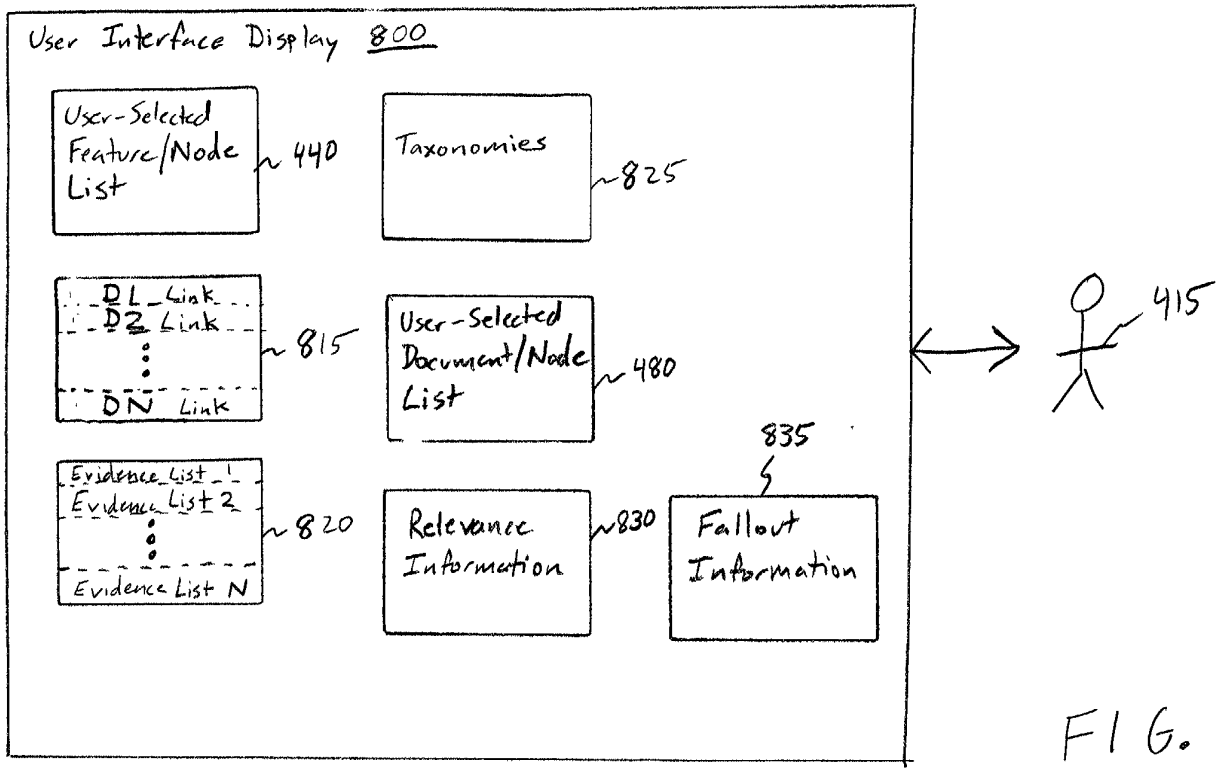

User Interface Display 800
User-Selected Feature/Node List
440
Taxonomies
825
D1 Link
D2 Link
DN Link
815
User-Selected Document/Node List
480
Evidence List 1
Evidence List 2
Evidence List N
820
Relevance Information
830
835
Fallout Information
415

FIG. 8

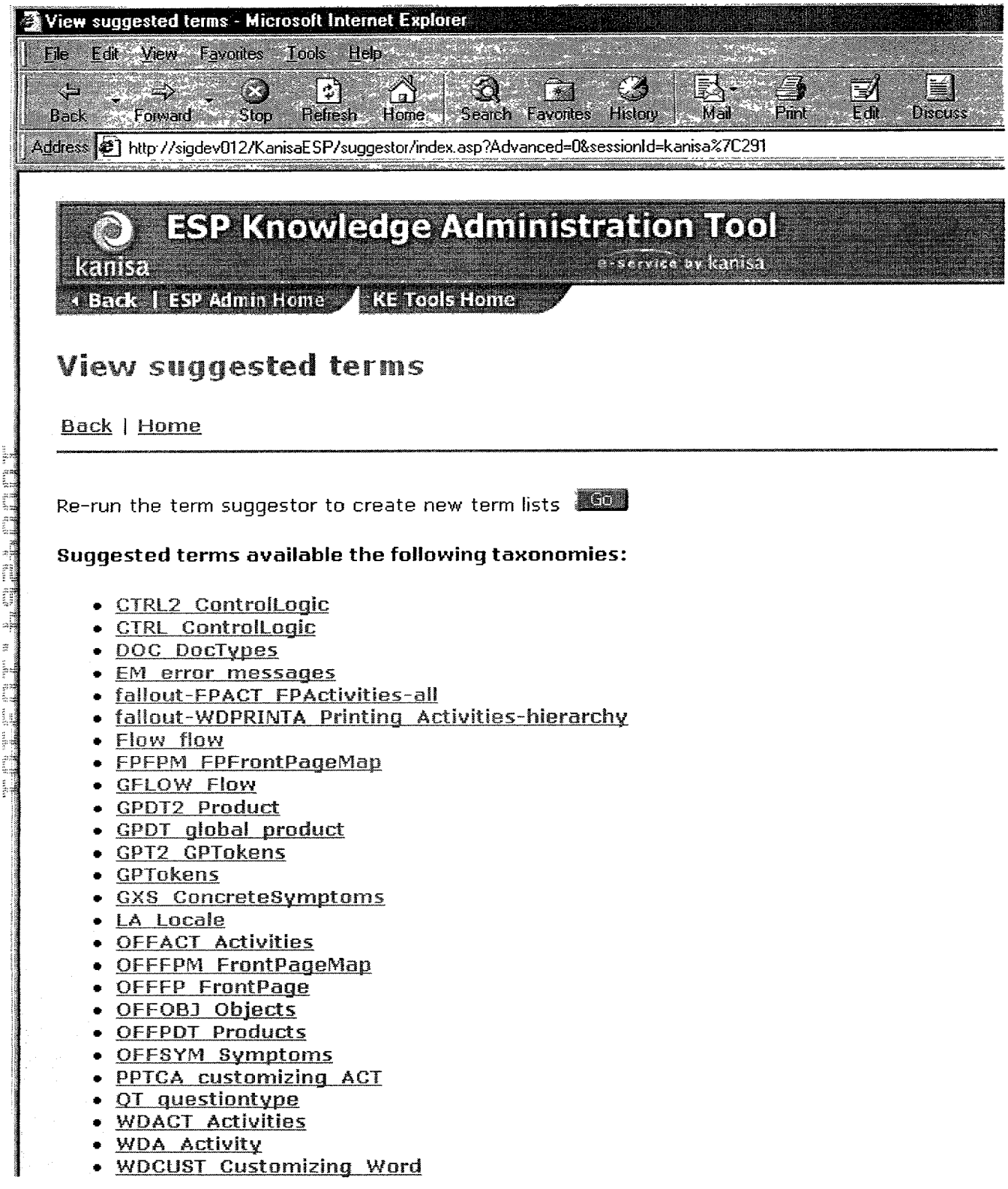
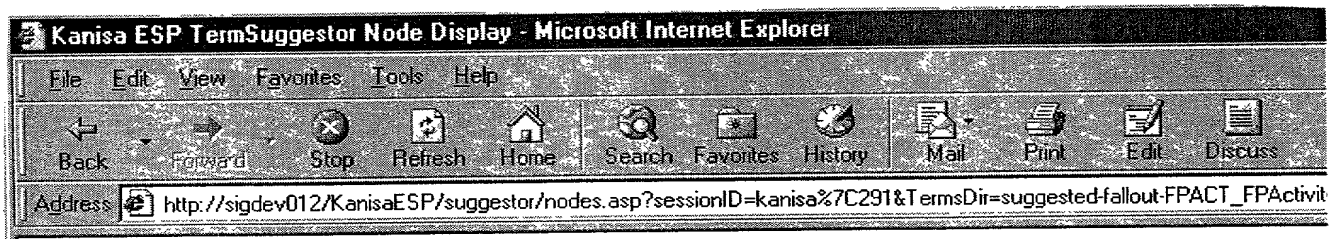

View suggested terms - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://sigdev012/KanisaESP/suggestor/index.asp?Advanced=0&sessionId=kanisa%7C291
kanisa
ESP Knowledge Administration Tool
e-service by kanisa
Back | ESP Admin Home
KE Tools Home
View suggested terms
Back | Home
Re-run the term suggestor to create new term lists
Go
Suggested terms available the following taxonomies:
CTRL2 ControlLogic
CTRL ControlLogic
DOC DocTypes
EM error messages
fallout-FPACT FPActivities-all
fallout-WDPRINTA Printing Activities-hierarchy
Flow flow
FPFPM FPFrontPageMap
GFLOW Flow
GPDT2 Product
GPDT global product
GPT2 GPTokens
GPTokens
GXS ConcreteSymptoms
LA Locale
OFFACT Activities
OFFFPM FrontPageMap
OFFFP FrontPage
OFFOBJ Objects
OFFPDT Products
OFFSYM Symptoms
PPTCA customizing ACT
QT questiontype
WDACT Activities
WDA Activity
WDCUST Customizing Word

FIG. 9



ESP Knowledge Administration Tool

kanisa

a service by kanisa

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Suggested terms for nodes in: fallout-FPACT_FPActivities

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Suggested terms for these nodes:

Terms suggested on: Tue Oct 23 12:58:57 2001

Concept Node	Suggested Terms	Manual tags	Auto tags
FPACT_Click_Help	84	0	4
FPACT_Create	3529	0	277
FPACT_Delete	739	0	44
FPACT_Disable	454	0	25
FPACT_Modify	747	0	41
FPACT_Play_Background_Sound	0	0	0
FPACT_Selecting	2691	0	145
FPACT_View_an_Active_Server_Page	0	0	0
FPACT_delete_a_Category	21	0	1
FPACT_play	0	0	0
FPACT_play_a_sound	0	0	0
FPACT_right_click	303	0	17
FPACT_root	0	0	0
FPACT_search	0	0	0
FPACT_search_a_FrontPage_web	0	0	0
FPACT_searching_content	0	0	0
FPACT_select	2006	0	116
FPACT_select_item	18	0	1
FPACT_to_browse_a_Web	0	0	0

FIG. 10

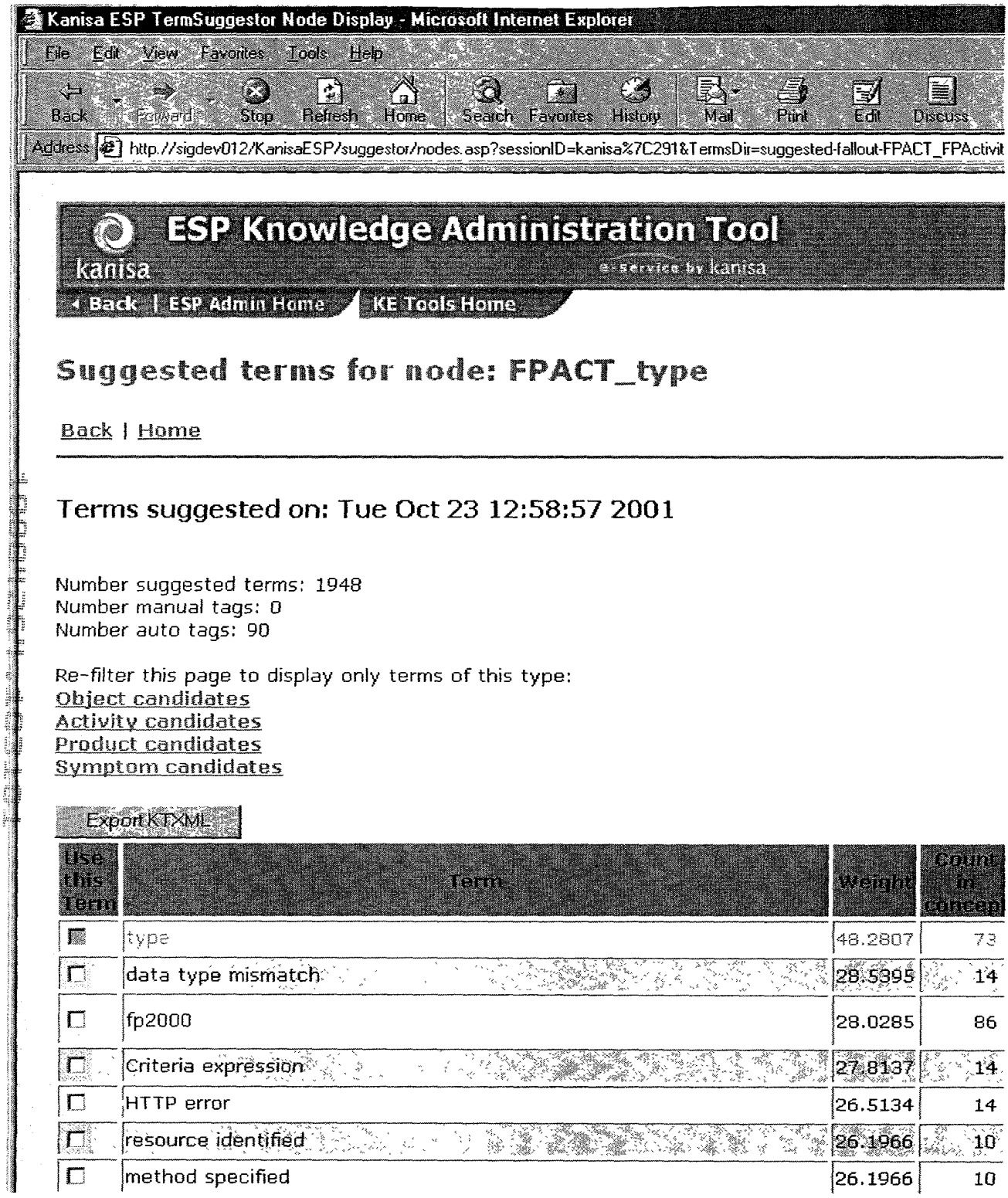
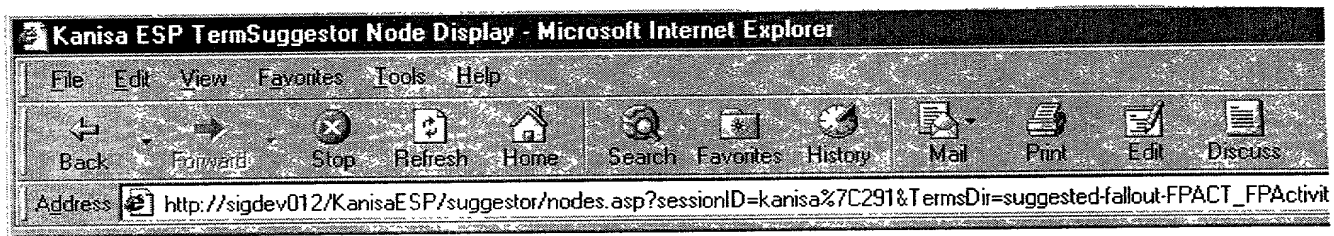

Kanisa ESP TermSuggestor Node Display - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://sigdev012/KanisaESP/suggestor/nodes.asp?sessionID=kanisa%7C291&TermsDir=suggested-fallout-FPACT_FPActivit
ESP Knowledge Administration Tool
kanisa
e-service by kanisa
Back | ESP Admin Home
KE Tools Home
Suggested terms for node: FPACT_type
Back | Home
Terms suggested on: Tue Oct 23 12:58:57 2001
Number suggested terms: 1948
Number manual tags: 0
Number auto tags: 90
Re-filter this page to display only terms of this type:
Object candidates
Activity candidates
Product candidates
Symptom candidates
Export KTXML
Use this Term
Term
Weight
Count in concept
type 48.2807 73
data type mismatch 28.5395 14
fp2000 28.0285 86
Criteria expression 27.8137 14
HTTP error 26.5134 14
resource identified 26.1966 10
method specified 26.1966 10

FIG. 11



Suggested terms for node: fallout

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Terms suggested on: Tue Oct 23 12:58:57 2001

Number suggested terms: 9867
Number manual tags: 0
Number auto tags: 0

Terms filtered on term type: **activity**

Export KTXML

Use this Term	Term	Weight	Count in concept	Count across taxonomy	Concepts containing this term as Evidence
☐	hang	2.5011	158	161	FPGSYM_FrontPage_Stops_Responding GSYM_hang QT_Hang
☐	floating	1.7027	66	66	
☐	grammar check	1.2314	44	44	WDA_grammar_check WDEDITA_38_6_grammar_checking WDEDITS_proofing WDFPM_X005_proofing
☐	item being	1.2092	43	43	
☐	numbering scheme	1.1422	40	40	
☐	recognizes	1.1197	39	39	
☐	mailing labels	1.0744	37	37	
☐	character formatting	0.9126	30	30	
☐	disappear	0.8671	79	82	GSYM_Not_displayed
☐	overlaps	0.8653	28	28	

FIG. 12